Flight 26, April 19, 2008

Biomass Burning (BB) Pollution Case

BB-sulfate mixtures dominate when high aerosol concentration. When particle concentrations are low (e.g., 6000 m ASL), less BB aerosol, other chemicals appear in pie chart, particles peak at smaller sizes.

SPLAT compositions
- Sulf_w/ small amnt org
- BB
- BB_Sulfate
- Org1
- Org2
- Org3
- Sulf_BB
- Soot_Sulf
- Pyridine
- Sea Salt

PCASP conc.
- Temperature
- RHice
- RHwater

Altitude (m) (at centre of average):
- 6107
- 5235
- 4389
- 3075
- 1839
- 737

Figure 6a

Normalized to $N_a$

Normalized to $N_a$

0.15 µm

0.3 µm
Flight 15, April 8, 2008
Distinct aerosol layers observed in vertical profile
Uppermost layer has particles in larger size mode

- Altitude (m):
  - max 5726
  - min 5420
  - max 5094
  - min 4716
  - max 4503
  - min 4131
  - max 3539
  - 2000
  - 1000

- PCASP conc.
- Temperature
- RHice
- RHwater

- dN/dlogD (cm^-3)

Figure 4a: Altitude profile with different levels and arrow indicators.

Figure 4b: Midpoint Diameter (µm) distribution with normalized to N_a.

- 0.17 µm
- 0.3 µm